

ABSTRACT

A method and system for providing dynamic ARQ, on a per packet basis, in a wireless telecommunications access network. By taking into consideration both per packet QoS based on, for example, packet delay bound, and potential delays caused by retransmission, a dynamic NAK-based ARQ scheme is presented that dynamically adapts the retransmission parameters to the per packet QoS to provide improved radio link quality, particularly for non-delay sensitive services and applications. The ARQ parameters that are dynamically adjusted can include the number of retransmission rounds, and the number of retransmissions in each round.

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